a unit length signal generator which generates a periodic signal of a unit length;

a memory for temporarily storing said information data in synchronism with said periodic signal from said unit length signal generator and supplying said information data in synchronism with a clock signal;

a pre-pit signal reproducing circuit for detecting said pre-pits from said recording medium and generating a pre-pit signal;

a phase-locked loop circuit for generating said clock signal which is phase-locked with a jitter component contained in said pre-pit signal; and

a recording means for recording said information data supplied from said memory on said recording medium.

5. (New) An information data recording apparatus as claimed in claim 1, wherein said unit length corresponds to a bit interval that is specified by a recording format used for recording the information data.

6. (New) An information data recording apparatus as claimed in claim 1, wherein said unit period is a sync frame.

7. (New) An information data recording apparatus as claimed in claim 6, wherein said sync frame has a length which is 1488 times the unit length.

8. (New) An information data recording apparatus for recording information data on an information recording medium having pre-pits which are formed at predetermined periodic intervals, said apparatus comprising:

a memory which temporarily stores said information data to be recorded on the information recording medium and supplies said information data in synchronism with a clock signal;

a pre-pit signal reproducing circuit which detects said pre-pits from said recording medium and generates a pre-pit signal;

a phase-locked loop circuit which generates said clock signal which is phase-locked with a jitter component contained in said pre-pit signal; and

a recording device which records said information data supplied from said memory on said recording medium.

9. (New) A method for recording information data on an information recording medium having pre-pits which are formed at predetermined periodic intervals, said method comprising the steps of:

temporarily storing said information data to be recorded on the information recording medium and supplying said information data in synchronism with a clock signal;

detecting said pre-pits from said recording medium and generating a pre-pit signal;

generating said clock signal which is phase-locked with a jitter component contained in said pre-pit signal; and

recording said information data supplied from said memory on said recording medium.